



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Amend Traffic Resolution by Approving Speed Limits on Kettleman Lane between Highway 99 Northbound Ramps and East City Limit

MEETING DATE: August 7, 1991

PREPARED BY: Public Works Director

RECOMMENDED ACTION: That the City Council amend the traffic resolution by approving speed limits on Kettleman Lane Between the Highway 99 Northbound Ramps and the East City Limit.

BACKGROUND INFORMATION: Public Works staff has recently updated engineering and traffic studies for 7 streets. These studies are performed following State of California Department of Transportation (Caltrans) guidelines in accordance with California Vehicle Code Section 40802. Based on the Vehicle Code Section 40802, in order to use radar enforcement, it is necessary to conduct engineering and traffic studies every five years on "non-local" streets. "Non-local" streets are the collector and arterial streets as shown on the Federal Aid System Maps. The engineering and traffic studies include measurement of prevailing speeds by a radar survey, review of unexpected conditions to the driver and accident data. The speed limits for the 6 streets were previously adopted in August 1986.

There are six streets that have no changes to existing speed limits and do not need City Council approval (see Table 1). The existing speed limits on the majority of these streets were mainly based on the 85th percentile speeds observed in the field.

The street that does need City Council's approval is Kettleman Lane, east of the Highway 99 ramps.

The City has recently annexed additional property, thereby extending the Easterly City Limits by approximately 1,130 feet on Kettleman Lane. The existing speed limit on Kettleman Lane west of the Highway 99 ramps was established by Caltrans and is posted at 35 mph. From Beckman Road easterly, the existing speed limit is 45 mph as established by San Joaquin County without a formal study for radar enforcement. Staff recommends establishing a 40 mph from Beckman Road to the east city limits. This will provide a smooth transition between existing zones. The 85th percentile of the two radar speed studies support this recommendation.

APPROVED

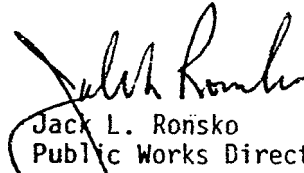
THOMAS A. PETERSON

recycled paper

Council Communication
Amend Traffic Resolution for Kettleman Lane
August 7, 1991
Page 2

Staff requests that Council approve the Kettleman Lane speed limit indicated in Table 1. If Council changes the recommended limits, such changes will not be radar enforceable.

FUNDING: Funding to be provided by the street maintenance account.

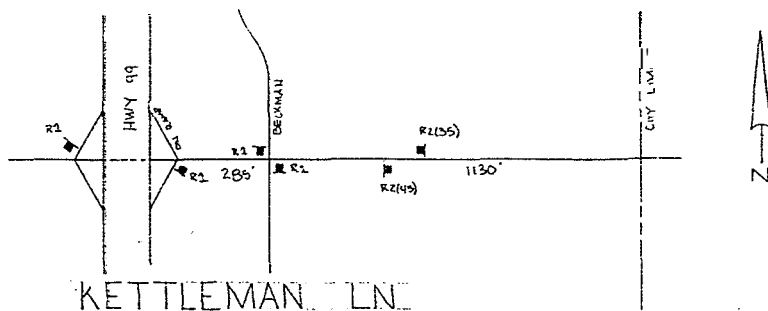

Jack L. Ronko
Public Works Director

Prepared by Richard C. Prima Jr., Asst. City Engineer, and Tom Cartwright,
Traffic Engineering Assistant

JLR/TC/cl1
Attachment

cc: Police Chief
Street Superintendent
Assistant Civil Engineer-Traffic

SEE NARRATIVE FOR
BACKGROUND INFORMATION



SPEED TABLE		25'											
ROADWAY WIDTH		2											
NO. OF LANES		NONE											
MEDIAN (TYPE)													
TRAFFIC SIGNAL DATA													
AVERAGE DAILY TRAFFIC		13,300 6,500											
OBS. SPEED - CRITICAL .85 th %		40											
WB		42											
- PACE (%)		32 - 42 (76)											
WB		33 - 43 (77)											
- MEDIAN .50 th %		36											
WB		37											
EXISTING SPEED ZONE		(STATE)											
PROPOSED SPEED ZONE		<div style="display: flex; justify-content: space-around; align-items: center;"> <div>35 MPH 35 MPH</div> <div>45 MPH 45 MPH</div> <div>40 MPH 40 MPH</div> <div>45 MPH 45 MPH</div> </div>											
LEGEND: <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <ul style="list-style-type: none"> - SIGN LOCATION R1 - STOP SIGN R21 - SPEED LIMIT SIGN (MPH) R39 - YIELD SIGN C - INSTALLATION C ESCHOOL, 25 MPH SIGNS, W/25, R2(25), R7(2) - TRAFFIC SIGNAL --- CITY LIMIT - - - CRITICAL SPEED --- LOWER LIMIT OF PACE </div> <div style="width: 50%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>MPH</th> <th>SPEED GRAPH</th> </tr> <tr><td>60</td><td></td></tr> <tr><td>50</td><td></td></tr> <tr><td>40</td><td></td></tr> <tr><td>30</td><td></td></tr> </table> </div> </div>		MPH	SPEED GRAPH	60		50		40		30			
MPH	SPEED GRAPH												
60													
50													
40													
30													
ACCIDENT PLOT YR: 1990		7											
YR: 1989		10											
ACCIDENT RATE - ACC./MILL. VEH.-ML		5.8											

Dr. <u>S.B. TC</u> Date <u>6/91</u>	Rev. <u>TC</u> Date <u>6/91</u>	Revision	Appr.	Approved By		CITY OF LODI PUBLIC WORKS DEPARTMENT	KETTLEMAN LN	SPEED ZONE SURVEY
Public Works Director				Date				

August 1991

SPEED ZONE REPORT - Kettleman Lane

- ° REFERENCE - Speed zone surveys are performed in the City of Lodi following State of California Department of Transportation (Caltrans) guidelines in accordance with Section 40802(b) of the California Vehicle Code. These guidelines are outlined in Chapter 8 of the Caltrans Traffic Manual.

- ° STUDY

Important factors to consider in determining the speed limit which is most appropriate to facilitate the orderly movement of traffic and that is reasonably safe are prevailing speeds, unexpected conditions to drivers, and accident records.

Prevailing Speeds (85th Percentile Speeds) - Reasonable speed limits conform to the actual behavior of the majority of motorists, and by measuring motorists' speeds, one will be able to select a speed limit that is both reasonable and effective. Speed limits should normally be established at the first five mile per hour increment below the 85th percentile speed. However, in matching existing conditions with the traffic safety needs of the community, engineering judgement may indicate the need for a further reduction of five miles per hour.

Two radar surveys were performed and the 85th percentile ranged from 40 to 42 mph.

Unexpected Conditions

When roadside development results in traffic conflicts and unusual conditions which are not readily apparent to drivers, speed limits below the 85th percentile are warranted. The following factors were considered: roadway design speed, safe stopping sight distance, superelevation, shoulder conditions, profile condition, intersection spacing and offsets, commercial driveway characteristics, and pedestrian traffic in the roadway without sidewalks.

There are no unexpected conditions used to further reduce the speed limit.

Accidents

Accident records of the two most recent years were considered in determining the speed zones. Accidents on segments of roadways are classified by their accident rate. Accident rates are determined by the number of accidents occurring within a segment of roadway and the traffic volume within that segment. Accident rates are shown in accidents per million vehicle miles (ACC/MVM).

The accident rate is 8.8 ACC/MVM. The latest average city-wide accident rate is 4.6 ACC/MVM.

SPEED ZONE REPORT - Kettleman Lane
Page 2

- ° CONCLUSION - The following posted speed limits are appropriate:

<u>Kettleman Lane Segment</u>	<u>Existing</u>	<u>Recommended</u>
Highway 99 Ramps - Beckman Road	35 mph	35 mph
Beckman Road - City Limits	45 mph	40 mph

Kettleman Lane has a posted speed limit of 35 mph to the Highway 99 northbound ramps. Kettleman Lane west of Highway 99 northbound ramps is under the State of California (Caltrans) jurisdiction. Since the segment between Highway 99 northbound ramps and Beckman Road is too short to perform a speed survey, the posted speed limit of 35 mph is appropriate. Based on the 85th percentile speeds observed in the field, a posted speed limit of 40 mph between Beckman Road and the east city limit is recommended. It is not recommended to further reduce the speed zones due to unexpected conditions and accident data. The 40 mph speed zone allows a transition area between the Caltrans' 35 mph speed zone and the County's 45 mph.

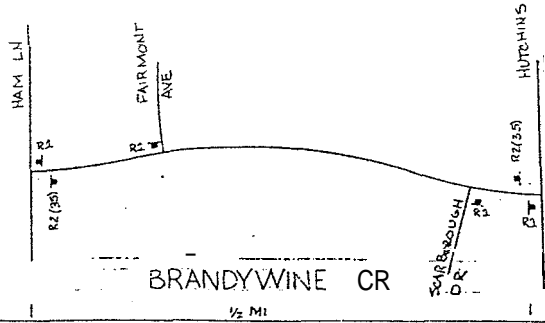
Jack L. Ronsko
Public Works Director

JLR/nl



ENGINEERING
AND TRAFFIC SURVEY

SEE NARRATIVE FOR
BACKGROUND INFORMATION



SPEED TABLE	
ROADWAY WIDTH	44'
NO. OF LANES	2
MEDIAN (TYPE)	NONE
TRAFFIC SIGNAL DATA	N/A
AVERAGE DAILY TRAFFIC	3010 (2005) 1,000
OBS. SPEED - CRITICAL .85% WB	35
EB	30
- PACE (%) WB	27-37 (82)
EB	24-34 (82)
- MEDIAN .50% WB	26-36 (82)
EB	31
	30
EXISTING SPEED ZONE	35 MPH
PROPOSED SPEED ZONE	35 MPH
LEGEND: T - SIGN LOCATION R1 - STOP SIGN R2 - SPEED LIMIT SIGN (MPH) R39 - YIELD SIGN C - INSTALLATION C (SCHOOL 25 MPH SIGN (W55, R2(25), R2(2)) T - TRAFFIC SIGNAL C - CITY LIMIT - - - CRITICAL SPEED - - - LOWER LIMIT OF PACE	
MPH	SPEED GRAPH
40	
30	
20	
ACCIDENT PLOT YR: 1990 YR: 1989 ACCIDENT RATE - ACC./MILL. VEH.-MI. 1.4	
Dr. JC SB	Appr. By [Signature]
Ch. RUF	8-7-91
Date 8/91	



CITY OF LODI
PUBLIC WORKS DEPARTMENT

BRANDYWINE DR

SPEED
ZONE
SURVEY

August 1991

SPEED ZONE REPORT - Brandywine Drive

- REFERENCE - Speed zone surveys are performed in the City of Lodi following State of California Department of Transportation (Caltrans) guidelines in accordance with Section 40802(b) of the California Vehicle Code. These guidelines are outlined in Chapter 8 of the Caltrans Traffic Manual.

- STUDY

Important factors to consider in determining the speed limit which is most appropriate to facilitate the orderly movement of traffic and that is reasonably safe are prevailing speeds, unexpected conditions to drivers, and accident records.

Prevailing Speeds (85th Percentile Speeds) - Reasonable speed limits conform to the actual behavior of the majority of motorists, and by measuring motorists' speeds, one will be able to select a speed limit that is both reasonable and effective. Speed limits should normally be established at the first five mile per hour increment below the 85th percentile speed. However, in matching existing conditions with the traffic safety needs of the community, engineering judgement may indicate the need for a further reduction of five miles per hour.

Four radar surveys were performed and the 85th percentile ranged from 34 to 37 mph.

Unexpected Conditions

When roadside development results in traffic conflicts and unusual conditions which are not readily apparent to drivers, speed limits below the 85th percentile are warranted. The following factors were considered: roadway design speed, safe stopping sight distance, superelevation, shoulder conditions, profile condition, intersection spacing and offsets, commercial driveway characteristics, and pedestrian traffic in the roadway without sidewalks.

There are no unexpected conditions used to further reduce the speed limit.

Accidents

Accident records of the two most recent years were considered in determining the speed zones. Accidents on segments of roadways are classified by their accident rate. Accident rates are determined by the number of accidents occurring within a segment of roadway and the traffic volume within that segment. Accident rates are shown in accidents per million vehicle miles (ACC/MVM).

The accident rate is 1.4 ACC/MVM. The latest average city-wide accident rate is 4.6 ACC/MVM.

SPEED ZONE REPORT - Brandywine Drive
Page 2

° CONCLUSION - The following posted speed limits are appropriate:

<u>Brandywine Drive Segment</u>	<u>Posted Speed Limit</u>
Ham Lane - Hutchins Street	35 mph

There are no changes from the existing posted speed limit. The recommended posted speed limits are based on the 85th percentile speeds observed in the field. It is not recommended to further reduce the speed zones due to unexpected conditions or accident records.

Jack L. Ronsko
Public Works Director

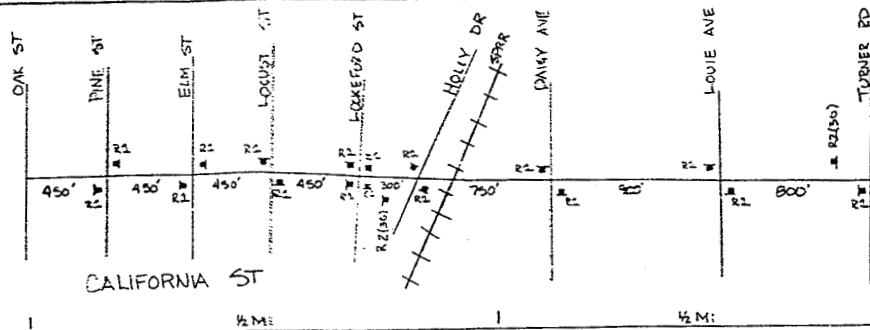
JLR/nl



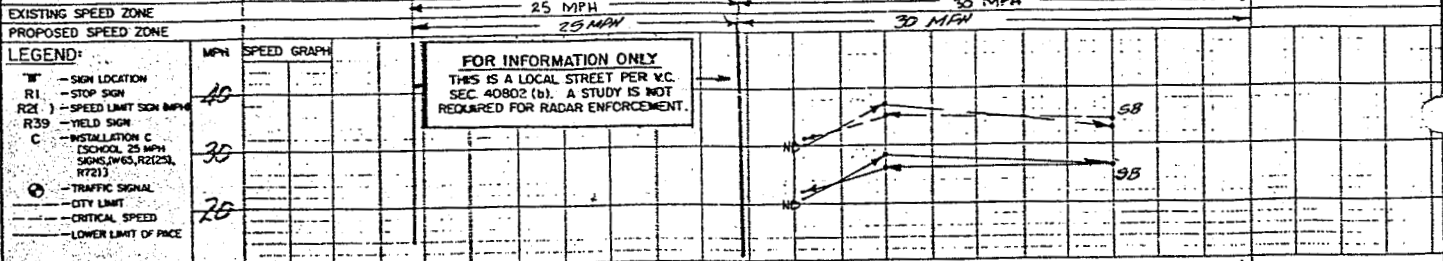
SPEEDZ10/TXTW.02M

ENGINEERING AND TRAFFIC SURVEY

SEE NARRATIVE FOR
BACKGROUND INFORMATION



SPEED TABLE	
ROADWAY WIDTH	39'
NO. OF LANES	2
MEDIAN (TYPE)	NONE
TRAFFIC SIGNAL DATA	NA
AVERAGE DAILY TRAFFIC	1940
OBS. SPEED - CRITICAL, 85 th %	31
- PACE (%)	5.5
- MEDIAN, 50 th %	27



ACCIDENT PLOT YR: 1990
YR: 1989
ACCIDENT RATE - ACC/MILL. VEH.-MILE
0 0 83 10.0

Dr: JF-58
CA: PUF
Date: 6/91

Reviewed by: *Salvatore*
Public Works Director
Date: 8-7-91

CITY OF LODI
PUBLIC WORKS DEPARTMENT

CALIFORNIA ST
SPEED ZONE SURVEY

August 1991

SPEED ZONE REPORT - California Street

- REFERENCE - Speed zone surveys are performed in the City of Lodi following State of California Department of Transportation (Caltrans) guidelines in accordance with Section 40802(b) of the California Vehicle Code. These guidelines are outlined in Chapter 8 of the Caltrans Traffic Manual.
- STUDY

Important factors to consider in determining the speed limit which is most appropriate to facilitate the orderly movement of traffic and that is reasonably safe are prevailing speeds, unexpected conditions to drivers, and accident records.

Prevailing Speeds (85th Percentile Speeds) - Reasonable speed limits conform to the actual behavior of the majority of motorists, and by measuring motorists' speeds, one will be able to select a speed limit that is both reasonable and effective. Speed limits should normally be established at the first five mile per hour increment below the 85th percentile speed. However, in matching existing conditions with the traffic safety needs of the community, engineering judgement may indicate the need for a further reduction of five miles per hour.

Six radar surveys were performed and the 85th percentile ranged from 30 to 37 mph.

Unexpected Conditions

When roadside development results in traffic conflicts and unusual conditions which are not readily apparent to drivers, speed limits below the 85th percentile are warranted. The following factors were considered: roadway design speed, safe stopping sight distance, superelevation, shoulder conditions, profile condition, intersection spacing and offsets, commercial driveway characteristics, and pedestrian traffic in the roadway without sidewalks.

There were no unexpected conditions used to further reduce the speed limit.

Accidents

Accident records of the two most recent years were considered in determining the speed zones. Accidents on segments of roadways are classified by their accident rate. Accident rates are determined by the number of accidents occurring within a segment of roadway and the traffic volume within that segment. Accident rates are shown in accidents per million vehicle miles (ACC/MVM).

The accident rate is 10.0 ACC/MVM between Lockeford Street and Turner Road. The latest average city-wide accident rate is 4.6 ACC/MVM.

SPEED ZONE REPORT - California Street
Page 2

- ° CONCLUSION - The following posted speed limit is appropriate:

<u>California Street Segment</u>	<u>Posted Speed Limit</u>
Lockeford Street-Turner Road	30 mph

There are no changes from the existing posted speed limit. Based on the 85th percentile speeds observed in the field, the posted speed limit could be 30 or 35 mph. The accident rate is higher than average and therefore it is appropriate not to increase the speed limit. It is not recommended to further reduce the speed zone. due to unexpected conditions,

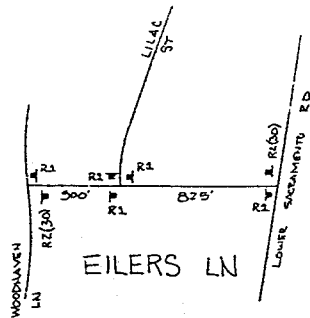
Jack L. Ronsko
Public Works Director

JLR/n1



**ENGINEERING
AND TRAFFIC SURVEY**

SEE NARRATIVE FOR
BACKGROUND INFORMATION



SPEED TABLE

ROADWAY WIDTH	41' 39'
NO. OF LANES	2
MEDIAN (TYPE)	NONE
TRAFFIC SIGNAL DATA	NA
AVERAGE DAILY TRAFFIC	2200 800
OBS. SPEED - CRITICAL, 85% WB	29 31
EB	30 31
-PACE (%) WB	21.31 (85) 23.33 (86)
EB	23.33 (90) 22.32 (78)
-MEDIAN, 50% WB	25 27
EB	26 27
EXISTING SPEED ZONE	20 MPH
PROPOSED SPEED ZONE	30 MPH

LEGEND

- SIGN LOCATION
- R1 — STOP SIGN
- R21 — SPEED LIMIT SIGN (MPH)
- R39 — YIELD SIGN
- C — INSTALLATION C (SCHOOL 25 MPH SIGNS, W60, R223, R721)
- ⊙ — TRAFFIC SIGNAL
- CITY LIMIT
- CRITICAL SPEED
- LOWER LIMIT OF PACE

MPH	SPEED GRAPH
40	
30	EB ← → WB
20	EB ← → WB

ACCIDENT PLOT YR: 1980

YR: 1989

ACCIDENT RATE-ACC./MILL. VEH.-MI.

Dr. JC SB

Ch. PJF

Date: 5/91

Approved By: [Signature]
Work Director

Date: 8-7-91



CITY OF LODI
PUBLIC WORKS DEPARTMENT

EILERS LN

**SPEED
ZONE
SURVEY**

August 1991

SPEED ZONE REPORT - Eilers Lane

- ° **REFERENCE** - Speed zone surveys are performed in the City of Lodi following State of California Department of Transportation (Caltrans) guidelines in accordance with Section 40802(b) of the California Vehicle Code. These guidelines are outlined in Chapter 8 of the Caltrans Traffic Manual.

- ° **STUDY**

Important factors to consider in determining the speed limit which is most appropriate to facilitate the orderly movement of traffic and that is reasonably safe are prevailing speeds, unexpected conditions to drivers, and accident records.

Prevailing Speeds (85th Percentile Speeds) - Reasonable speed limits conform to the actual behavior of the majority of motorists, and by measuring motorists' speeds, one will be able to select a speed limit that is both reasonable and effective. Speed limits should normally be established at the first five mile per hour increment below the 85th percentile speed. However, in matching existing conditions with the traffic safety needs of the community, engineering judgement may indicate the need for a further reduction of five miles per hour.

Four radar surveys were performed and the 85th percentile ranged from 29 to 31 mph as shown below:

Unexpected Conditions

When roadside development results in traffic conflicts and unusual conditions which are not readily apparent to drivers, speed limits below the 85th percentile are warranted. The following factors were considered: roadway design speed, safe stopping sight distance, superelevation, shoulder conditions, profile condition, intersection spacing and offsets, commercial driveway characteristics, and pedestrian traffic in the roadway without sidewalks.

There are no unexpected conditions used to further reduce the speed limit.

Accidents

Accident records of the two most recent years were considered in determining the speed zones. Accidents on segments of roadways are classified by their accident rate. Accident rates are determined by the number of accidents occurring within a segment of roadway and the traffic volume within that segment. Accident rates are shown in accidents per million vehicle miles (ACC/MVM).

The accident rates is 2.5 ACC/MVM. The latest average city-wide accident rate is 4.6 ACC/MVM.

SPEED ZONE REPORT - Eilers Lane

◦ CONCLUSION

Eilers Lane Segment

Posted Speed Limit

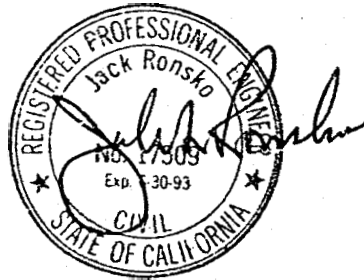
Woodhaven lane - Lower Sacramento Road

30 mph

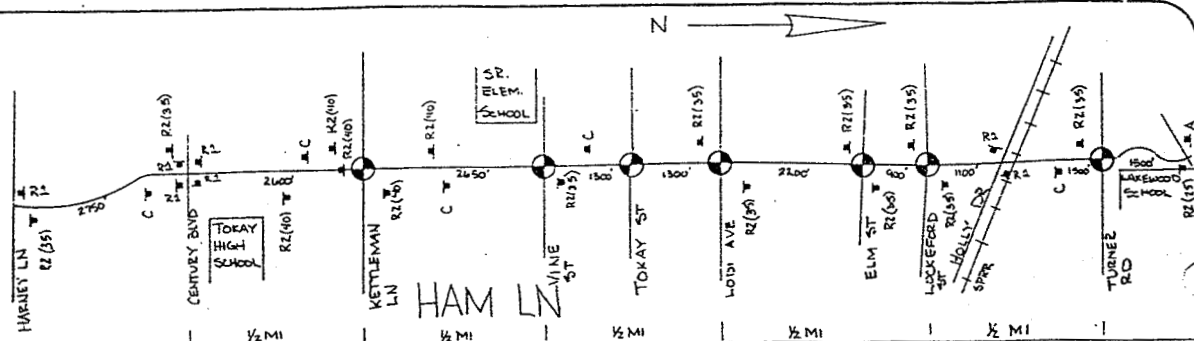
There are no changes from the existing posted speed limit. The recommended posted speed limits are based on the 85th percentile speeds observed in the field. It is **not** recommended to further reduce the speed zones due to unexpected conditions or accident records.

Jack L. Ronsko
Public Works Director

JLR/nl



SEE NARRATIVE FOR
BACKGROUND INFORMATION



SPEED TABLE		ROADWAY WIDTH									
		<div style="display: flex; justify-content: space-between; align-items: center;"> 64-84' VARIES 64' 55' VARIES 60' 56-62' </div>									
NO. OF LANES		<div style="display: flex; justify-content: space-between; align-items: center;"> 4 2 </div>									
MEDIAN (TYPE)		<div style="display: flex; justify-content: space-between; align-items: center;"> RAISED CONCRETE NONE </div>									
TRAFFIC SIGNAL DATA		<div style="display: flex; justify-content: space-between; align-items: center;"> 8th ACTUATED 2nd ACTUATED 2nd ACT. 3rd ACT. 5th ACT 2nd ACT </div>									
AVERAGE DAILY TRAFFIC		<div style="display: flex; justify-content: space-between; align-items: center;"> 6140 (54%) 4800 (6100) 9,000 16,500 15,400 1470 15,220 12,810 10,490 (8105) 7320 </div>									
OBS. SPEED - CRITICAL .85%		<div style="display: flex; justify-content: space-between; align-items: center;"> SB 36 43 42 38 38 38 38 38 </div>									
		<div style="display: flex; justify-content: space-between; align-items: center;"> NA 38 39 41 38 36 36 38 </div>									
- PACE (%)		<div style="display: flex; justify-content: space-between; align-items: center;"> SB 32-42 (79) 32-42 (76) 32-42 (88) 31-41 (84) 30-40 (91) 31-41 (88) </div>									
		<div style="display: flex; justify-content: space-between; align-items: center;"> NA 31-41 (85) 32-42 (82) 33-43 (82) 30-40 (81) 29-39 (80) 30-40 (79) </div>									
- MEDIAN .50%		<div style="display: flex; justify-content: space-between; align-items: center;"> SB 36 37 33 34 34 34 </div>									
		<div style="display: flex; justify-content: space-between; align-items: center;"> NA 34 36 37 34 33 34 </div>									
EXISTING SPEED ZONE		<div style="display: flex; justify-content: space-between; align-items: center;"> 33 MPH 40 MPH 35 MPH </div>									
PROPOSED SPEED ZONE		<div style="display: flex; justify-content: space-between; align-items: center;"> 35 MPH 40 MPH 35 MPH </div>									
LEGEND:		<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 15%;"> <p>— SIGN LOCATION</p> <p>RI — STOP SIGN</p> <p>R21 — SPEED LIMIT SIGN (MILEAGE)</p> <p>R39 — YIELD SIGN</p> <p>C — REGULATION C (SCHOOL 25 MPH SIGNS, W63, R2123, R721)</p> <p>— TRAFFIC SIGNAL</p> <p>— CITY LIMIT</p> <p>— CRITICAL SPEED</p> <p>— LOWER LIMIT OF PACE</p> </div> <div style="width: 85%;"> <p>MPH</p> <p>40</p> <p>30</p> <p>20</p> </div> </div>									
ACCIDENT PLOT		<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 15%;"> <p>YR: 1990</p> <p>YR: 1989</p> <p>ACCIDENT RATE - ACC/MILL VEH.-MI</p> </div> <div style="width: 85%;"> <p>1 1 2 1 3 1 2 1 1 1 1 1 3 1 2 1 2 3 3 1 1</p> <p>1 1 2 1 2 1 1 1 1 1 1 1 3 1 2 1 2 3 3 1 1</p> <p>1.9 2.8 2.0 4.0 2.3 2.2 6.3 5.0</p> </div> </div>									
APPROVED BY		<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 15%;"> <p>DR: ER - SB</p> <p>DR: RIF</p> <p>DATE: 6/8/91</p> </div> <div style="width: 85%;"> <p>APPROVED BY: <i>[Signature]</i> 8-7-91</p> <p>DATE: 8-7-91</p> <p>CITY OF LODI PUBLIC WORKS DEPARTMENT</p> </div> </div>									
SPEED ZONE SURVEY		<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 15%;"> <p>MPH</p> <p>40</p> <p>30</p> <p>20</p> </div> <div style="width: 85%;"> <p>35 MPH</p> <p>40 MPH</p> <p>35 MPH</p> </div> </div>									

August 1991

SPEED ZONE REPORT - Ham Lane

- REFERENCE - Speed zone surveys are performed in the City of Lodi following State of California Department of Transportation (Caltrans) guidelines in accordance with Section 40802(b) of the California Vehicle Code. These guidelines are outlined in Chapter 8 of the Caltrans Traffic Manual.
- STUDY

Important factors to consider in determining the speed limit which is most appropriate to facilitate the orderly movement of traffic and that is reasonably safe are prevailing speeds, unexpected conditions to drivers, and accident records.

Prevailing Speeds (85th Percentile Speeds) - Reasonable speed limits conform to the actual behavior of the majority of motorists, and by measuring motorists' speeds, one will be able to select a speed limit that is both reasonable and effective. Speed limits should normally be established at the first five mile per hour increment below the 85th percentile speed. However, in matching existing conditions with the traffic safety needs of the community, engineering judgement may indicate the need for a further reduction of five miles per hour.

Twelve radar surveys were performed and the 85th percentile ranged from 36 to 43 mph as shown below:

<u>Street Segment</u>	<u>Northbound</u>	<u>Southbound</u>
Harney Lane - Century Boulevard	38 mph	36 mph
Century Boulevard - Vine Street	39-41 mph	42-43 mph
Vine Street - Turner Road	36-38 mph	38 mph

Unexpected Conditions

When roadside development results in traffic conflicts and unusual conditions which are not readily apparent to drivers, speed limits below the 85th percentile are warranted. The following factors were considered: roadway design speed, safe stopping sight distance, superelevation, shoulder conditions, profile condition, intersection spacing and offsets, commercial driveway characteristics, and pedestrian traffic in the roadway without sidewalks.

There are no unexpected conditions used to further reduce the speed limit.

Accidents

Accident records **of** the two most recent years were considered in determining the speed zones. Accidents **or** segments of roadways are classified by their accident rate. Accident rates are determined by the number of accidents occurring within a segment of roadway and the traffic volume within that segment. Accident rates are shown in accidents per million vehicle miles (ACC/MVM).

The accident rates ranged from 1.9 to 6.3 ACC/MVM. The latest average city-wide accident rate is **4.6** ACC/MVM.

- ° CONCLUSION - The following posted speed limits are appropriate:

<u>Ham Lane Segment</u>	<u>Posted Speed Limit</u>
Hamney Lane - Century Boulevard	35 mph
Century Boulevard - Vine Street	40 mph
Vine Street - Turner Road	35 mph

There are no changes from the existing posted speed limit. The recommended posted speed limits are based on the 85th percentile speeds observed in the field. It is not recommended to further reduce the **speed** zones due to unexpected conditions or accident records.

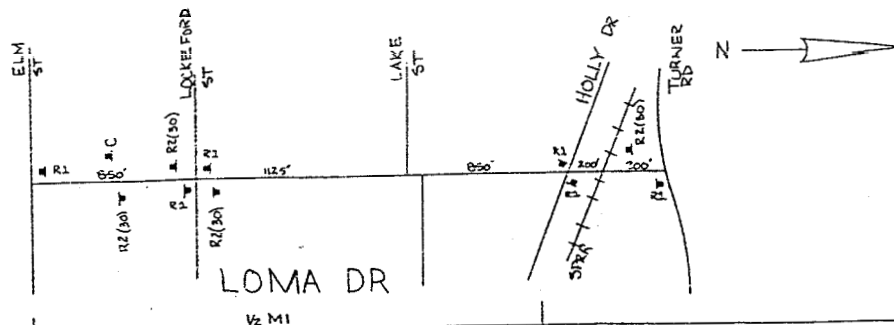
Jack L. Ronsko
Public Works Director

JLR/nl

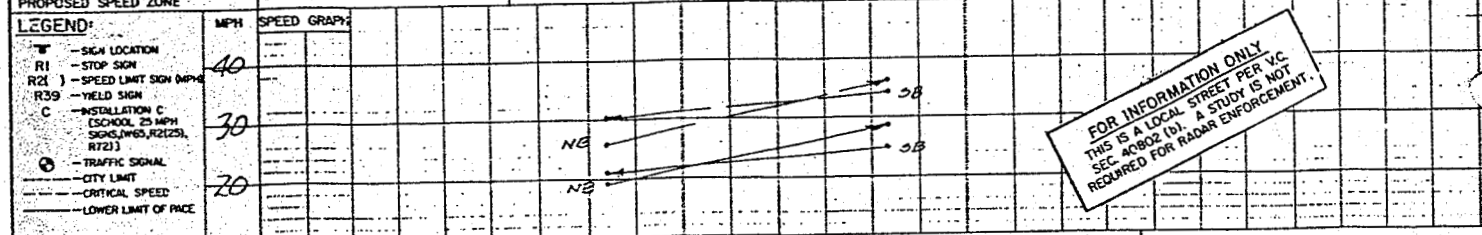


**ENGINEERING
AND TRAFFIC**

SEE NARRATIVE FOR
BACKGROUND INFORMATION



SPEED TABLE	
ROADWAY WIDTH	36' 39' 45' 46'
NO. OF LANES	2
MEDIAN (TYPE)	NONE
TRAFFIC SIGNAL DATA	NA
AVERAGE DAILY TRAFFIC	1000
OBS. SPEED - CRITICAL .85% 58	30
NB	26
SB	25-35 (80)
— PACE (%)	21-31 (68)
NB	19-29 (80)
SB	28-38 (76)
— MEDIAN .50% 58	25
NB	23
SB	30
EXISTING SPEED ZONE	30 MPH
PROPOSED SPEED ZONE	30 MPH



FOR INFORMATION ONLY
THIS IS A LOCAL STREET PER V.C.
SEC. 40802 (b). A STUDY IS NOT
REQUIRED FOR RADAR ENFORCEMENT.

ACCIDENT PLOT YR: 1980

YR: 1989

ACCIDENT RATE - ACC./MILL. VEH.-MI

Dr: JC SB

Ch: RJP

Date: 8/91

Approved By: [Signature]

Public Works Director

CITY OF LODI

PUBLIC WORKS DEPARTMENT

LOMA DR

SPEED ZONE SURVEY

August 1991

SPEED ZONE REPORT - Loma Drive

- REFERENCE - Speed zone surveys are performed in the City of Lodi following State of California Department of Transportation (Caltrans) guidelines in accordance with Section 40802(b) of the California Vehicle Code. These guidelines are outlined in Chapter 8 of the Caltrans Traffic Manual.
- STUDY

Important factors to consider in determining the speed limit which is most appropriate to facilitate the orderly movement of traffic and that is reasonably safe are prevailing speeds, unexpected conditions to drivers, and accident records.

Prevailing Speeds (85th Percentile Speeds) - Reasonable speed limits conform to the actual behavior of the majority of motorists, and by measuring motorists' speeds, one will be able to select a speed limit that is both reasonable and effective. Speed limits should normally be established at the first five mile per hour increment below the 85th percentile speed. However, in matching existing conditions with the traffic safety needs of the community, engineering judgement may indicate the need for a further reduction of five miles per hour.

Four radar surveys were performed between Elm Street and Turner Road and the 85th percentile ranged from 26 to 36 mph.

Unexpected Conditions

When roadside development results in traffic conflicts and unusual conditions which are not readily apparent to drivers, speed limits below the 85th percentile are warranted. The following factors were considered: roadway design speed, safe stopping sight distance, superelevation, shoulder conditions, profile condition, intersection spacing and offsets, commercial driveway characteristics, and pedestrian traffic in the roadway without sidewalks.

There are no unexpected conditions used to further reduce the speed limit.

Accidents

Accident records of the two most recent years were considered in determining the speed zones. Accidents on segments of roadways are classified by their accident rate. Accident rates are determined by the number of accidents occurring within a segment of roadway and the traffic volume within that segment. Accident rates are shown in accidents per million vehicle miles (ACC/MVM).

The accident rate ranged from 10.0 to 12.7 ACC/MVM. The latest average city-wide accident rate is 4.6 ACC/MVM. It is recommended to further reduce the 85th percentile speeds due to the higher than average accident rate.

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° CONCLUSION - The following posted speed limit is appropriate:

<u>Loma Street Segment</u>	<u>Posted Speed Limit</u>
Elm Street - Turner Road	30 mph

There are no changes from the existing posted **speed** limit. Based on the 85th percentile speeds observed in the field and the higher than average accident rate, a 30 mph posted speed limit is appropriate. It is not recommended to further reduce the speed limit due to unexpected conditions.

Jack L. Ronsko
Public Works Director

JLR/nl



August 1991

SPEED ZONE REPORT - Stockton Street

- REFERENCE - Speed zone surveys are performed in the City of Lodi following State of California Department of Transportation (Caltrans) guidelines in accordance with Section 40802(b) of the California Vehicle Code. These guidelines are outlined in Chapter 8 of the Caltrans Traffic Manual.
- STUDY

Important factors to consider in determining the speed limit which is most appropriate to facilitate the orderly movement of traffic and that is reasonably safe are prevailing speeds, unexpected conditions to drivers, and accident records.

Prevailing Speeds (85th Percentile Speeds) - Reasonable speed limits conform to the actual behavior of the majority of motorists, and by measuring motorists' speeds, one will be able to select a speed limit that is both reasonable and effective. Speed limits should normally be established at the first five mile per hour increment below the 85th percentile speed. However, in matching existing conditions with the traffic safety needs of the community, engineering judgement may indicate the need for a further reduction of five miles per hour.

Fourteen radar surveys were performed and the 85th percentile ranged from 29 to 46 mph as shown below:

<u>Street Segment</u>	<u>Northbound</u>	<u>Southbound</u>
Harney Lane - Kettleman Lane	45-46 mph	44-45 mph
Kettleman Lane - Tokay Street	35-37 mph	37-39 mph
Tokay Street - Lockeford Street	29-30 mph	29 mph
Lockeford Street - Turner Road	39 mph	39 mph

Unexpected Conditions

When roadside development results in traffic conflicts and unusual conditions which are not readily apparent to drivers, speed limits below the 85th percentile are warranted. The following factors were considered: roadway design speed, safe stopping sight distance, superelevation, shoulder conditions, profile condition, intersection spacing and offsets, commercial driveway characteristics, and pedestrian traffic in the roadway without sidewalks.

There are no unexpected conditions used to further reduce the speed limit.

SPEED ZONE REPORT - Stockton Street

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Accidents

Accident records of the **two** most recent years were considered in determining the speed zones. Accidents on segments of roadways are classified by their accident rate. Accident rates are determined by the number of accidents occurring within a segment of roadway and the traffic volume within that segment. Accident rates are shown in accidents per million vehicle miles (ACC/MVM).

The accident rate ranged from 2.3 to 10.3 ACC/MVM. The latest average city-wide accident rate is **4.6** ACC/MVM.

- **CONCLUSION** - The following posted speed limits are appropriate:

<u>Stockton Street Segment</u>	<u>Posted Speed Limit</u>
Harney Lane - Kettleman Lane	45 mph
Kettleman Lane - Tokay Street	35 mph
Tokay Street - Lockeford Street	30 mph
Lockeford Street - Turner Road	35 mph

There are no changes from the existing posted speed limit. The recommended posted speed limits are based on the 85th percentile speeds observed in the field. It is not recommended to further reduce the speed zones due to unexpected conditions or accident records.

Jack L. Ronsko
Public Works Director

JLR/nl



RESOLUTION NO. 91-146

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RESOLUTION OF THE LODI CITY COUNCIL
AMENDING TRAFFIC RESOLUTION 87-163, AND THEREBY APPROVING SPEED LIMITS ON
KETTLEMAN LANE BETWEEN HIGHWAY 99 NORTHBOUND RAMPS AND EAST CITY LIMIT

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RESOLVED, that the City Council of the City of Lodi does hereby amend Traffic Resolution No. 87-163, Section 7 - Speed Limits, to approve speed limits on Kettleman Lane between Highway 99 northbound ramps and East City Limits as shown on Table 1, attached hereto.

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Dated: August 7, 1991

I hereby certify that Resolution No. 91-146 **was** passed and adopted by the Lodi City Council *in* an adjourned regular meeting held August 7, 1991 by the following vote:

Ayes: Council Members - Pennino, Pinkerton, Sieglock,
Snider and Hinchman (Mayor)

Noes: Council Members - None

Absent: Council Members - None



City Clerk

Table 1

<u>Street - Segment</u>	<u>Posted Speed Limit</u>
Brandywine Drive Ham Lane-Hutchins Street	35 mph
California Street Oak Street-Lockeford Street Lockeford Street-Turner Road	25 mph 30 mph
Eilers Lane Woodhaven Lane-Lower Sacramento Road	30 mph
Ham Lane Harney Lane-Centruy Boulevard Centruy Boulevard-Vine Street Vine Street-Turner Road	35 mph 40 mph 35 mph
Loma Drive Elm Street-Turner Road	30 mph
Stockton Street Harney Lane-Kettleman Lane Kettleman Lane-Tokay Street Tokay Street-Lockeford Street Lockeford Street-Turner Road	45 mph 35 mph 30 mph 35 mph

RECOMMENDED

Kettleman lane Beckman Road-East City Limits Highway 99 Northbound Ramp to Beckman Road	40 mph 35 mph
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